

CROPS

FIELD CROPS

GRAIN CORN production totaled 59.6 million bushels in 1999, down 10 percent from the 1998 level of 66.1 million bushels. The average yield of 101 bushels per acre was down 13 bushels from the previous year. There were 590,000 acres harvested in 1999 compared with 580,000 acres in 1998. The value of production, at \$128 million, was down 12 percent from last year's \$146 million.

SILAGE CORN production, at 8.96 million tons, was up 2 percent from 1998. Acres harvested for silage, at 560,000, were up 2 percent from the previous year. Value of production for corn silage, at \$232 million, was up 4 percent from the 1998 value of \$223 million. Nationally, New York ranked second behind Wisconsin in corn silage production.

WHEAT production in 1999 totaled 8.13 million bushels, up 16 percent from 1998's production of 7.02 million bushels. Average yield, at 65 bushels per acre, was up 11 bushels from 1998 and is a new record high for New York. The value of production, at \$16.3 million, was up 9 percent from the \$15.0 million in 1998.

OAT production decreased 27 percent from the previous year to 4.76 million bushels. The number of acres harvested, at 70,000, was down 35,000 from a year earlier. Average yield per acre, at a record high 68 bushels, was up 6 bushels from a year earlier. The value of New York's oat crop decreased 25 percent from \$9.18 million in 1998 to \$6.90 million in 1999.

RYE acres harvested for grain, at 15,000 acres, was unchanged from the previous year. Rye production, at 570,000 bushels, was up 9 percent from a year earlier. The value of production totaled \$855 thousand, down from \$1.05 million in 1998.

ALL DRY HAY production was placed at a record low 2.98 million tons, down 4 percent from the 1998 output of 3.11 million tons. Value of production, at \$305 million, makes hay the State's number one crop.

ALFALFA DRY HAY production was 1.27 million tons, 14 percent below the 1998 crop of 1.47 million tons. Value of production was \$152 million in 1999 versus \$154 million in 1998, a 2 percent decrease.

OTHER DRY HAY production, which includes clover-timothy, mixed grasses, etc., was 1.71 million tons, 4 percent above 1998's level of 1.64 million tons. Value of production, at \$153 million in 1999, was 14 percent more than the \$134 million recorded in 1998.

POTATO production decreased from 7.29 million hundredweight (cwt.) in 1998 to 6.76 million cwt. in 1999. Yield per acre averaged 265 cwt., down 5 cwt. from a year ago. Area harvested was 25,500 acres, down 1,500 acres from 1998, and an all time record low. Value of production totaled \$60.8 million in 1999 compared with the 1998 value of \$68.2 million.

DRY BEAN production dropped 3 percent to 414,000 cwt. Average yield per acre decreased 50 pounds to 1,370 pounds per acre. Area harvested was 30,200 acres. The value of production, at \$8.24 million, was down 24 percent from 1998.

SOYBEAN production was a record high 4.74 million bushels, 19 percent above last year's production. Area harvested, at a record high 128,000 acres, was up 32 percent from a year ago. Yield per acre averaged 37 bushels, down 4 bushels from a year ago. The 1999 crop was valued at \$19.9 million, down 2 percent from the 1998 value.

1999 CROP SUMMARY

A warm, drier than normal APRIL pushed spring fieldwork ahead of schedule. Planting surged forward while warmer weather encouraged hay growth. Soil moisture was short to adequate. Onion planting passed the half-way mark. Planting of other vegetable crops gained momentum. Long Island potato planting was 95 percent finished. Livestock feed supplies were good. Pasture development was behind usual.

MAY provided excellent weather conditions for planting and harvesting and progress advanced well ahead of usual. Corn planting neared completion by the end of the month; the average progress is only 66 percent planted at this time. Apples were in good condition. Vegetable planting continued. Dry, windy conditions damaged onions in Orange County. Replanting was necessary.

JUNE brought hot, dry conditions that stressed crops across the state. Irrigation was required. Soil moisture supplies were very short to short by month's end. Rain was needed for hay regrowth. Fruit crops were in good to excellent condition, although apples were small in orchards not irrigated. Milk production dropped off as heat and humidity bothered livestock.

Hot weather persisted during JULY. Dryness in eastern areas further deteriorated crops and pastures. Western areas received much needed rain but more was required to relieve dryness. Soil moisture continued very short to short. Pastures were rated in very poor to fair condition. A lot of dry hay was put in the barn. The second cutting of alfalfa reached 84 percent complete. Regrowth was short. Wheat combining wound down, oat harvest picked up momentum. Vegetable harvests were in full swing. Fruit crops were in fair condition. Fruit was not sizing as well as hoped. Peach harvest was underway. Cherry picking was completed.

AUGUST continued dry. Soil moisture supplies fell to 26 percent very short, 48 percent short, and 26 percent adequate.

Pastures also deteriorated. The corn crop was in fair to good condition. Corn silage harvest began. Oat harvest reached 96 percent complete with quality rated good. The second cutting of alfalfa was almost complete, the third cutting passed the half-way mark. Potato harvest got underway. Soybeans began to mature; pod set was poor. Vegetable harvesting continued in high gear. Apple picking had begun by month's end and the Concord grape harvest was just getting underway. Quality of berries was good with high sugar content.

SEPTEMBER was warmer, but wetter than normal thanks largely to Hurricane Floyd. The rain was too late for corn and soybeans, but will help next year's wheat and hay crops. Much clean up and erosion repair was needed after the torrential rains fell. Rains caused a lot of splitting in tomatoes and the high winds knocked apples off trees. By month's end grain corn harvest had started and silage corn was 73 percent harvested. Progress ran well ahead of normal. Potato digging remained very active and the dry bean harvest shifted into high gear. Orange County onion harvest progressed rapidly. Apple picking continued in full swing. Cider making was in high gear. Grape harvesting picked up momentum. Concord grapes were in good condition with high sugar levels.

OCTOBER was another drier than normal month. Soil moisture was mostly adequate. Warm weather encourage pasture regrowth; conditions were fair to good. Corn harvest continued ahead of the normal pace. Hay harvest was essentially done. Soybean, dry bean, and potato harvests were in full swing. Onions were being moved into storage. Most vegetable harvests were finished and growers turned under crop residues. Cabbage and pumpkin harvests moved ahead rapidly. Late apple varieties were still being picked. Grape harvesting continued. Cider making was active. Peach and pear harvests were winding down.

Table 10. FIELD CROPS: Acres, Yield, Production, and Value, 1990-1999

Crop and Year	Planted	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars per bu.</i>	<i>1,000 dollars</i>
<u>WHEAT</u>						
1990	150	145	49.0	7,105	2.70	19,184
1991	115	110	49.0	5,390	3.35	18,057
1992	120	110	56.0	6,160	2.70	16,632
1993	95	85	46.0	3,910	3.30	12,903
1994	120	115	53.0	6,095	3.20	19,504
1995	130	125	55.0	6,875	4.20	28,875
1996	160	150	43.0	6,450	4.15	26,768
1997	135	130	56.0	7,280	3.35	24,388
1998	140	130	54.0	7,020	2.13	14,953
1999	130	125	65.0	8,125	2.00	16,250
<u>OATS</u>						
1990	160	135	61.0	8,235	1.41	11,611
1991	130	100	50.0	5,000	1.56	7,800
1992	140	110	70.0	7,700	1.43	11,011
1993	135	105	62.0	6,510	1.38	8,984
1994	130	110	64.0	7,040	1.42	9,997
1995	110	90	58.0	5,220	1.65	8,762
1996	85	70	55.0	3,850	2.10	8,085
1997	100	90	65.0	5,850	1.70	9,945
1998	115	105	62.0	6,510	1.41	9,179
1999	100	70	68.0	4,760	1.45	6,902
<u>RYE</u>						
1990	60	10	26.0	260	2.55	663
1991	50	8	33.0	264	2.55	673
1992	52	9	32.0	288	2.05	590
1993	40	8	27.0	216	2.25	486
1994	30	8	31.0	248	2.25	558
1995	42	9	35.0	315	2.25	709
1996	49	8	28.0	224	3.00	672
1997	40	7	33.0	231	2.10	485
1998	50	15	35.0	525	2.00	1,050
1999	45	15	38.0	570	1.50	855
<u>BARLEY</u>						
1990	12	9	50.0	450	1.95	878
1991	13	11	45.0	495	1.55	767
1992	12	10	56.0	560	1.75	980
1993	14	12	52.0	624	1.65	1,030
1994	12	9	61.0	549	1.75	961
1995	12	10	65.0	650	1.80	1,170
1996	16	12	54.0	648	3.05	1,976
1997	16	13	54.0	702	2.00	1,404
1998	18	16	50.0	800	1.30	1,040
1999	19	17	57.0	969	1.35	1,308

Table 10. FIELD CROPS: Acres, Yield, Production, and Value, 1990-1999 (Continued)

Crop and Year	Planted ^{1/}	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	<u>1,000 acres</u>	<u>1,000 acres</u>	<u>Bushels</u>	<u>1,000 bushels</u>	<u>Dollars per bu.</u>	<u>1,000 dollars</u>
<u>SOYBEANS</u>						
1990	40	39	35.0	1,365	5.50	7,508
1991	49	48	31.0	1,488	5.30	7,886
1992	52	50	30.0	1,500	5.25	7,875
1993	56	55	34.0	1,870	6.10	11,407
1994	70	68	41.0	2,788	5.00	13,940
1995	66	63	38.0	2,394	6.20	14,843
1996	76	75	35.0	2,625	6.35	16,669
1997	105	102	37.0	3,774	6.00	22,644
1998	100	97	41.0	3,977	5.10	20,283
1999	130	128	37.0	4,736	4.20	19,891
<u>CORN FOR GRAIN</u>						
1990	1,210	620	98.0	60,760	2.44	148,254
1991	1,230	660	98.0	64,680	2.70	174,636
1992	1,150	550	92.0	50,600	2.30	116,380
1993	1,100	540	105.0	56,700	2.85	161,595
1994	1,110	570	116.0	66,120	2.65	181,366
1995	1,130	620	105.0	65,100	3.85	246,593
1996	1,150	630	103.0	64,890	2.98	193,372
1997	1,170	600	110.0	66,000	2.62	172,920
1998	1,130	580	114.0	66,120	2.21	146,125
1999	1,150	590	101.0	59,590	2.15	128,119
<u>CORN SILAGE</u>						
			<u>Tons</u>	<u>1,000 tons</u>	<u>Dollars per ton</u>	
1990	-	580	15.0	8,700	24.90	216,630
1991	-	550	14.0	7,700	23.80	183,260
1992	-	550	14.5	7,975	22.80	181,830
1993	-	550	14.2	7,810	24.10	188,221
1994	-	540	15.8	8,532	22.70	193,676
1995	-	505	14.0	7,070	24.50	173,215
1996	-	510	15.5	7,905	25.80	203,949
1997	-	560	15.0	8,400	34.40	288,960
1998	-	550	16.0	8,800	25.30	222,640
1999	-	560	16.0	8,960	25.90	232,064
<u>DRY BEANS ^{2/}</u>						
			<u>Lbs.</u>	<u>1,000 cwt.</u>	<u>Dollars per cwt.</u>	
1990	41	39.5	1,700	672	16.00	10,752
1991	36	35.0	1,380	483	19.00	9,177
1992	35	29.0	1,050	305	23.40	7,137
1993	37	34.0	1,350	459	19.40	8,905
1994	39	38.5	1,520	585	20.30	11,876
1995	34	33.0	1,630	538	18.10	9,738
1996	30	29.0	1,300	377	27.00	10,179
1997	44	43.5	1,560	679	20.60	13,987
1998	31	30.0	1,420	426	25.30	10,778
1999	31	30.2	1,370	414	19.90	8,239

^{1/} Complete utilization of corn acreage planted is shown on page 22. Corn planted acreage includes corn for grain, silage, forage, and abandoned acres.

^{2/} Production by major varieties is shown on page 21.

Table 10. FIELD CROPS: Acres, Yield, Production, and Value, 1990-1999 (Continued)

Crop and Year	Planted	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	<u>1,000 acres</u>	<u>1,000 acres</u>	<u>Tons</u>	<u>1,000 tons</u>	<u>Dollars per ton</u>	<u>1,000 dollars</u>
<u>ALFALFA HAY</u>						
1990	-	860	2.55	2,193	85.50	187,502
1991	-	760	2.50	1,900	84.50	160,550
1992	-	800	2.35	1,880	95.50	179,540
1993	-	700	2.45	1,715	97.00	166,355
1994	-	620	2.95	1,829	93.00	170,097
1995	-	650	2.60	1,690	94.00	158,860
1996	-	640	2.70	1,728	99.50	171,936
1997	-	640	2.60	1,664	110.00	183,040
1998	-	600	2.45	1,470	105.00	154,350
1999	-	550	2.30	1,265	120.00	151,800
<u>OTHER HAY</u>						
1990	-	1,120	1.95	2,184	64.50	140,868
1991	-	1,190	1.85	2,202	72.00	158,544
1992	-	900	1.90	1,710	76.50	130,815
1993	-	1,050	1.80	1,890	74.50	140,805
1994	-	1,040	2.05	2,132	75.00	159,900
1995	-	950	1.85	1,758	72.00	126,576
1996	-	870	2.00	1,740	74.50	129,630
1997	-	890	2.00	1,780	80.50	143,290
1998	-	800	2.05	1,640	82.00	134,480
1999	-	950	1.80	1,710	89.50	153,045
<u>ALL HAY 1/</u>						
1990	-	1,980	2.21	4,377	77.00	328,370
1991	-	1,950	2.10	4,102	77.50	319,094
1992	-	1,700	2.11	3,590	88.00	310,355
1993	-	1,750	2.06	3,605	90.50	307,160
1994	-	1,660	2.39	3,961	84.50	329,997
1995	-	1,600	2.16	3,448	85.50	285,436
1996	-	1,510	2.30	3,468	87.00	301,566
1997	-	1,530	2.25	3,444	94.00	326,330
1998	-	1,400	2.22	3,110	93.00	288,830
1999	-	1,500	1.98	2,975	107.00	304,845

1/ All hay price is based on weighted sales, not production.

Table 11. POTATOES: Acreage, Yield, Production, and Disposition, Sales, and Value, 1990-1999

Crop Year	Planted	Harvested	Yield per acre	Production	Used on farms where grown <u>1/</u>	Sold	Marketing year average price	Value	
								Production	Sales
	<u>Acres</u>	<u>Acres</u>	<u>Cwt.</u>	----- <u>1,000 cwt.</u> -----		<u>Dollars per cwt.</u>		<u>1,000 dollars</u>	
1990	29,000	28,500	277	7,890	430	7,460	7.40	58,386	55,204
1991	29,600	29,500	234	6,917	542	6,375	8.70	60,178	55,463
1992	28,200	27,000	289	7,808	1,043	6,765	6.65	51,923	44,987
1993	28,800	28,200	273	7,693	585	7,108	8.20	63,083	58,286
1994	29,100	28,600	273	7,805	548	7,257	9.75	76,190	70,814
1995	28,000	27,500	270	7,425	445	6,980	7.45	55,316	52,001
1996	27,000	26,500	280	7,420	468	6,952	7.30	54,166	50,750
1997	26,500	26,000	275	7,150	454	6,696	8.75	62,563	58,590
1998	27,600	27,000	270	7,290	440	6,850	9.35	68,162	64,048
1999	26,000	25,500	265	6,758	<u>2/</u>	<u>2/</u>	9.00	60,822	<u>2/</u>

^{1/} Includes feed and seed used on farms where produced and shrinkage during storage.^{2/} Available September 21, 2000.Table 12. POTATOES: Stocks Held by Growers and Local Dealers, 1990-1999 ^{1/}

Crop Year	December 1	January 1	February 1	March 1	April 1
	<u>1,000 cwt.</u>				
1990	3,150	2,210	1,220	<u>2/</u>	<u>2/</u>
1991	3,050	2,450	1,700	<u>2/</u>	<u>2/</u>
1992	3,000	3,100	2,240	<u>2/</u>	<u>2/</u>
1993	3,650	2,000	1,200	<u>2/</u>	<u>2/</u>
1994	4,200	3,000	1,800	<u>2/</u>	<u>2/</u>
1995	3,400	2,500	1,500	900	400
1996	3,700	2,400	1,400	800	350
1997	3,600	2,500	1,500	800	400
1998	3,400	2,300	1,500	900	350
1999	3,700	2,600	1,500	800	350

^{1/} Total stocks consist of production less total disappearance to date. Disappearance includes all sales for all purposes, all potatoes eaten or fed on farms where produced and all losses to date through shrinkage, decay, dumping, etc.^{2/} Not published to avoid disclosure of individual operations.

Table 13. DRY BEANS: Acreage, Yield, Production, and Off-Farm Stocks, by Class, 1990-1999

Crop Year	Acres		Yield per acre	Production	Off-Farm Stocks		
	Planted	Harvested			Jan. 1	Apr. 1	Sept. 1
	<u>1,000 acres</u>		<u>Cwt.</u>	<u>1,000 cwt.</u>		<u>1,000 cwt.</u>	
<u>RED KIDNEY</u>							
<u>Light</u>							
1990	21.0	20.0	16.8	336	152	67	6
1991	20.0	19.5	13.6	266	151	102	1/
1992	19.5	16.0	9.7	155	99	63	1/
1993	20.0	18.0	12.8	230	142	63	1/
1994	21.0	20.5	14.8	303	138	81	1/
1995	19.0	18.0	16.2	292	125	72	1/
1996	16.5	16.0	12.7	203	113	78	1/
1997	25.0	24.5	15.8	387	80	60	1/
1998	16.0	15.5	13.5	209	113	56	12
1999	17.7	17.5	12.9	225	181	115	2/
<u>Dark</u>							
1990	5.5	5.4	16.9	91	3	1	-
1991	4.5	4.3	15.3	66	8	6	1/
1992	3.5	2.6	10.8	28	1	1/	-
1993	5.0	4.8	12.5	60	1	-	-
1994	5.0	5.0	14.6	73	-	-	-
1995	4.0	4.0	16.0	64	-	-	1/
1996	3.5	3.0	12.7	38	1/	1/	1/
1997	2.0	2.0	16.5	33	1/	1/	1/
1998	2.0	2.0	16.0	32	1/	1/	1/
1999	2.0	2.0	13.5	27	1/	1/	2/
<u>BLACK</u>							
1990	10.0	9.8	17.6	172	51	22	4
1991	8.0	7.8	12.7	99	65	60	1/
1992	8.5	7.2	12.5	90	52	36	11
1993	8.0	7.5	16.0	120	92	37	12
1994	9.0	9.0	16.2	146	90	45	12
1995	8.0	8.0	16.9	135	93	58	15
1996	7.0	7.0	14.3	100	63	49	14
1997	13.0	13.0	15.3	199	58	35	11
1998	10.5	10.0	14.7	147	82	52	13
1999	9.5	9.0	15.7	141	152	108	2/
<u>OTHER CLASSES</u>							
1990	4.5	4.3	17.0	73	17	12	6
1991	3.5	3.4	15.3	52	20	15	8
1992	3.5	3.2	10.0	32	17	1/	1/
1993	4.0	3.7	13.2	49	16	2	1/
1994	4.0	4.0	15.8	63	23	12	1/
1995	3.0	3.0	15.7	47	35	12	5
1996	3.0	3.0	12.0	36	1/	1/	7
1997	4.0	4.0	15.0	60	1/	1/	16
1998	2.5	2.5	15.2	38	1/	1/	1/
1999	1.8	1.7	12.4	21	1/	1/	2/
<u>ALL CLASSES</u>							
1990	41.0	39.5	17.0	672	223	102	16
1991	36.0	35.0	13.8	483	244	183	82
1992	35.0	29.0	10.5	305	169	106	36
1993	37.0	34.0	13.5	459	251	102	25
1994	39.0	38.5	15.2	585	251	138	24
1995	34.0	33.0	16.3	538	253	142	26
1996	30.0	29.0	13.0	377	211	146	26
1997	44.0	43.5	15.6	679	159	127	34
1998	31.0	30.0	14.2	426	210	130	32
1999	31.0	30.2	13.7	414	371	239	2/

1/ Included in total to avoid disclosure of individual operations.

2/ Available September 2000.

Table 14. CORN: Acreage Utilization, 1990-1999

Crop Year	Total acres planted	Acres harvested for					
		All Grain	Dry Shelled	High Moisture Shelled	High Moisture Ground Ear	Silage	Forage and abandoned
		<u>1,000 acres</u>					
1990	1,210	620	380	180	60	580	10
1991	1,230	660	430	175	55	550	20
1992	1,150	550	400	120	30	550	50
1993	1,100	540	390	120	30	550	10
1994	1,110	570	420	120	30	540	0
1995	1,130	620	460	130	30	505	5
1996	1,150	630	435	175	20	510	10
1997	1,170	600	450	120	30	560	10
1998	1,130	580	435	115	30	550	0
1999	1,150	590	460	105	25	560	0

Table 15. HAY: Stocks on Farms, 1990-1999

Crop Year	Total production	Stocks Following Harvest			
		December 1		May 1	
		Stocks	Percent of production	Stocks	Percent of production
	<u>1,000 tons</u>	<u>1,000 tons</u>	<u>Percent</u>	<u>1,000 tons</u>	<u>Percent</u>
1990	4,377	3,502	80	1,007	23
1991	4,102	2,666	65	615	15
1992	3,590	2,334	65	503	14
1993	3,605	1,983	55	361	10
1994	3,961	2,377	60	594	15
1995	3,448	2,069	60	552	16
1996	3,468	2,254	65	555	16
1997	3,444	1,998	58	344	10
1998	3,110	1,990	64	435	14
1999	2,975	1,900	64	385	13

NEW YORK FEED GRAIN DEFICIT IN 1999

New York feed grain production (corn, oats, barley) in 1999 fell 10 percent from a year earlier. The quantity of grain fed declined 1 percent in the same period. The number of grain consuming animal units decreased slightly, while the quantity of grain fed per animal remained the same. Last summer's drought, which reduced grain yields across the State, was the primary reason for the sizeable increase in the feed grain deficit from 1998.

Although the feed grain deficit in recent years has been lower than in the 1970's and 1980's, feed grain is brought into New York annually to meet the feeding requirements of the State's dairy, livestock, and poultry industry. Feed grain produced in New York during 1999 met 83 percent of the State's feeding requirements. In 1998 it met 93 percent of the State's feeding requirements.

Table 16. FEED GRAIN: Production and Quantities Fed, 1990-1999

Year	Quantity Produced	Quantity Fed	Quantity of Deficit
	<u>1,000 tons</u>		
1990	1,844	2,207	363
1991	1,903	2,239	336
1992	1,553	2,271	718
1993	1,707	2,191	484
1994	1,977	2,113	136
1995	1,923	2,134	211
1996	1,895	2,111	216
1997	1,959	2,048	89
1998	1,974	2,130	156
1999	1,768	2,118	350